

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL 03/00705

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J23/78 B01J33/00 B01J35/02 B01J37/03 C11C3/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 101 530 A (ENGELHARD CORP) 23 May 2001 (2001-05-23) cited in the application	1,3-8, 10-16, 18,19,26
Y	paragraphs '0001!', '0019!', '0020!  example 3  ---	2,9,13, 17
X	US 4 532 351 A (BARNETT ALLAN E ET AL) 30 July 1985 (1985-07-30)	1,3-8, 10-16, 18-26
Y	examples 5,6  claim 1 column 6, line 46 - line 59  ---  -/--	2,9,13, 17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

23 January 2004

Date of mailing of the international search report

12/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Besselmann, S

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 03/00705

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 631 265 A (OUDEJANS JOHANNES C ET AL) 23 December 1986 (1986-12-23)	1,3-8, 10-14, 19-26
Y	table I column 3, line 35 - line 40 column 3, line 48 - line 54 ---	2,9,13
X	US 5 616 531 A (FELDHAUSER BRIGITTE ET AL) 1 April 1997 (1997-04-01)	1,3-8, 10-14, 19-26
Y	column 2, line 47 - line 61 ---	2,9,13
X	EP 0 597 662 A (ENGELHARD CORP) 18 May 1994 (1994-05-18)	1,4,8, 10-13, 19-24,26
Y	page 2, line 56 - line 58 page 3, line 20 - line 44 examples ---	2,9,13
Y	WO 95 30481 A (MEERN BV ENGELHARD DE ;DIJK GUSTAAF J M VAN (NL); ENGELHARD CORP ()) 16 November 1995 (1995-11-16) the whole document ---	2,9,13, 17
Y	DE 28 50 719 A (WINSEL AUGUST PROF DIPL PHYS D) 10 July 1980 (1980-07-10) the whole document -----	2,9,13, 17

# INTERNATIONAL SEARCH REPORT

Int.....al application No.  
PCT/NL 03/00705

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1, 3-20, 26 when referring back to claim 1

A catalyst,  
a matrix particle comprising the catalyst,  
a slurry comprising the catalyst,  
a method for preparing the catalyst,  
a catalyst precursor,  
a process using the catalyst or matrix particle or slurry  
and the use of the catalyst.

2. Claims: 2, 3-20, 26 when referring back to claim 2

A catalyst,  
a matrix particle comprising the catalyst,  
a slurry comprising the catalyst,  
a method for preparing the catalyst,  
a catalyst precursor,  
a process using the catalyst or matrix particle or slurry  
and the use of the catalyst.

3. Claims: 21-25

A process for hydrogenating an unsaturated fatty substance

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL 03/00705

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1101530	A	23-05-2001	EP 1101530 A1	23-05-2001
			AU 2237001 A	30-05-2001
			CA 2391945 A1	25-05-2001
			EP 1237651 A1	11-09-2002
			JP 2003513790 T	15-04-2003
			WO 0136093 A1	25-05-2001
US 4532351	A	30-07-1985	AU 565181 B2	10-09-1987
			AU 1580883 A	22-12-1983
			CA 1196906 A1	19-11-1985
			EP 0097047 A2	28-12-1983
			IN 159334 A1	02-05-1987
			JP 59016542 A	27-01-1984
US 4631265	A	23-12-1986	NL 8401965 A	16-01-1986
			AT 36124 T	15-08-1988
			AT 33211 T	15-04-1988
			AU 564213 B2	06-08-1987
			AU 4391285 A	02-01-1986
			AU 564788 B2	27-08-1987
			AU 4391385 A	02-01-1986
			BR 8502979 A	04-03-1986
			BR 8502980 A	04-03-1986
			CA 1246534 A1	13-12-1988
			CA 1236448 A1	10-05-1988
			DE 3561986 D1	05-05-1988
			DE 3564081 D1	08-09-1988
			DK 279485 A ,B,	22-12-1985
			DK 279585 A ,B,	22-12-1985
			EP 0168091 A1	15-01-1986
			EP 0167201 A1	08-01-1986
			ES 8607755 A1	16-11-1986
			ES 8608334 A1	01-12-1986
			ES 8704756 A1	01-07-1987
			ES 8704757 A1	01-07-1987
			IN 164938 A1	08-07-1989
			IN 164939 A1	08-07-1989
			IN 162417 A1	21-05-1988
			IN 162418 A1	21-05-1988
			JP 1802290 C	26-11-1993
			JP 5012980 B	19-02-1993
			JP 61064332 A	02-04-1986
			JP 1783951 C	31-08-1993
			JP 4077617 B	08-12-1992
			JP 61064333 A	02-04-1986
			KR 8902859 B1	05-08-1989
			KR 8902858 B1	05-08-1989
			MX 166440 B	08-01-1993
			MX 166441 B	08-01-1993
			NO 852493 A ,B,	23-12-1985
			NO 852494 A ,B,	23-12-1985
			US 4734392 A	29-03-1988
			US 5047178 A	10-09-1991
			US 4657889 A	14-04-1987
			US 4683088 A	28-07-1987
			ZA 8504698 A	26-02-1986
			ZA 8504699 A	26-02-1986

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 03/00705

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5616531	A	01-04-1997	AT 136814 T AU 666777 B2 AU 4957393 A CA 2145094 A1 DE 69302282 D1 DE 69302282 T2 WO 9406557 A1 EP 0660749 A1 GR 3019746 T3 JP 8501490 T	15-05-1996 22-02-1996 12-04-1994 31-03-1994 23-05-1996 19-09-1996 31-03-1994 05-07-1995 31-07-1996 20-02-1996
EP 0597662	A	18-05-1994	US 5356847 A EP 0597662 A1 JP 6205978 A US 5493037 A	18-10-1994 18-05-1994 26-07-1994 20-02-1996
WO 9530481	A	16-11-1995	AT 224767 T AU 2431295 A CA 2189893 A1 DE 69528365 D1 DE 69528365 T2 EP 0758921 A1 JP 10500355 T WO 9530481 A1 US 6281163 B1	15-10-2002 29-11-1995 16-11-1995 31-10-2002 15-05-2003 26-02-1997 13-01-1998 16-11-1995 28-08-2001
DE 2850719	A	10-07-1980	DE 2850719 A1	10-07-1980